



# **H** *Acronyms and Abbreviations*

## **Acronyms**

ACARS	Aircraft Communications Addressing and Reporting System
ACI	American Concrete Institute
AISC	American Institute of Steel Construction
APW	air-pressurized water
ASCE	American Society of Civil Engineers
ASMP	American Society of Media Photographers
ASTM	American Society for Testing and Materials
ATC	Applied Technology Council
BBC	British Broadcasting Corporation
BPM	built-up plate member
BPS	Building Performance Study
BRE	Building Research Establishment
BSI	British Standards Institute
CFD	Computational Fluid Dynamics
CIA	Central Intelligence Agency
CM	Claremont (salvage yard)
Con Ed	Consolidated Edison
CTBUH	Council on Tall Buildings in the Urban Habitat
DDC	Department of Design and Construction (NYC)
DEC	Department of Environmental Conservation
DoB	Department of Buildings (NYC)
DOD	Department of Defense
DOE	Department of Energy
EDT	Eastern Daylight Time
EDX	energy dispersive x-ray analysis
EEOC	Equal Employment Opportunity Commission
EPA	Environmental Protection Agency
FCC	Fire Command Center
FDNY	Fire Department of New York

FDS1	Fire Dynamics Simulator Version 1
FEM	finite element modeling
FEMA	Federal Emergency Management Agency
FK	Fresh Kills (salvage yard)
HSLA	high-strength low-alloy
HVAC	heating, ventilation, and air-conditioning
IRS	Internal Revenue Service
KB	Keasbey (salvage yard)
LDEO	Lamont-Doherty Earth Observatory (Columbia University)
LZA	LZA Technology/Thornton-Tomasetti
MTA	Metropolitan Transit Authority
NAIC	National Association of Insurance Commissioners
NBC	National Broadcasting Company
NBS	National Bureau of Standards
NCSEA	National Council of Structural Engineers Associations
NFPA	National Fire Protection Association
NIST	National Institute of Standards and Technology
NJ	New Jersey
NOAA	National Oceanic and Atmospheric Administration
NW	Newark (salvage yard)
NY	New York
NYBFU	NY Board of Fire Underwriters
NYC	New York City
NYPD	New York Police Department
OCC	Operations Control Center
OEM	Mayor's Office of Emergency Management (NYC)
PANYNJ	Port Authority of New York and New Jersey
PATH	Port Authority Trans-Hudson
SCBA	self-contained breathing apparatus
SEAoNY	Structural Engineers Association of New York
SEERP	Structural Engineering Emergency Response Plan
SEI	Structural Engineering Institute
SEI/ASCE	Structural Engineering Institute of the American Society of Civil Engineers
SFPE	Society of Fire Protection Engineers
SOM	Skidmore, Owings & Merrill
SSB	Salomon Smith Barney
STD	Standard
TMS	The Masonry Society
UL	Underwriters Laboratories
UPS	uninterruptible power supply
USC	United States Code
UTC	Coordinated Universal Time
WFC	World Financial Center
WTC	World Trade Center
Y/T	yield-to-tensile-strength ratio

## Abbreviations

°C	degrees Celsius
°F	degrees Fahrenheit
cfm	cubic feet per minute
ft <sup>2</sup>	square feet
gpm	gallons per minute
GW	gigawatt
Hz	hertz
in-k or kip-in	kip-inch
kips/bolt	kips per bolt
kg/m <sup>2</sup>	kilograms per square meter
kJ/g	kilojoules per gram
km	kilometer
km/h	kilometers per hour
ksi	kips per square inch
kV	kilovolt
kVA	kilovoltampere
kW	kilowatt
kW/m <sup>2</sup>	kilowatt per square meter
m <sup>3</sup> /s	cubic meters per second
μm	micrometer
min	minute
mm <sup>2</sup>	square millimeter
MPa	megapascals
mph	miles per hour
mW	megawatt
n/a	not applicable
nm	nanometer
nm/s	nanometers per second
psf	pounds per square foot
psi	pounds per square inch
s	second
sf	square foot
V	volt